

Thank you!

We are grateful for your choice of transceiver.

 **ZASTONE** *We believe that this easy-to-easy transceiver will provide dependable and cost-effective communications for you. Please read this manual carefully to ensure you know how to properly operate the radio before using.*

To respected user.

- Please use this radio within the rule and law of local government, or it will offend the law.
- To avoid the problem of electromagnetic interference or compatibility, please turn off the radio on the sites, such as hospital and other health protection place. When the crew ask to turn off radio during the flight, please do it.
- Please don't place the radio where there is out of reaching of air bag opening in the car.
- Please turn off the radio. When there is explosive and combustible.
- Please don't transmit too long, or the radio may heat to hurt you and even to itself.
- Please don't use the radio with the damaged antenna, because it may result in light burning.
- Please don't place the radio under direct sunlight long or to extremely hot condition.
- When taking the portable transceiver along with you, please take the antenna away from your body at least 5 centimeters during transmitting.
- If you find there is any strange smell and smoke in the transceiver, please turn off it at once and contact the authorized Dealer nearby.

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Product checking

Thank you for using **ZASTONE** ZT-Q5 trabsceiver.

Before using, we suggest that:

- Please check up the packing box,
- Please carefully unpack the box. And identify the items listed in the following table. If any items are missing or have been damaged during shipment, please contact our dealers immediately.

Supplied Accessories

Item	Quantity
Antenna	1
Li-ion Battery pack	1
Belt dip	1
Drop-in charging tray	1
User's Manual	1

Function

- Frequency: VHF: 136.000~174.000MHz / 245.000~246.000MHz
UHF: 400.000~470.000MHz
- Full frequency channel +199 storage channel
- LCD
- Cloning
- read/write frequency by computer function
- CTCSS,50 groups CTCSS/DCS,83 groups X2
- CTCSS/DCS
- VOX
- Alarm
- group function
- Radio
- voice in chinese/English
- LED flash light

Battery

Attention:

Please charge the new battery pack before using it. The new or stored battery pack, which can not reach its full capacity for the first charging. After 2 or 3 times charging and discharging, it can reach its full charge. When the power is low, the battery need to be charged or changed. Use the battery specified by  ZASTONE to charge. The use of other battery may be explosive and harmful.

Note

- ▲ Do not short-circuit the terminals of battery or throw the battery into fire. Do not disassemble the battery pack yourself.
- ▲ The battery can not reach its full charge if it is charged outside, the range of temperature(0°C - 40°C)
- ▲ Please turn off the transceiver while charging, or it will affect the charging.
- ▲ When the battery operating time becomes little, even if it is fully charged, replace the battery.
- ▲ Keep the course of charging on while charging in order not to affect battery.
- ▲ Please do not recharge when the battery power is full, or the life of battery pack could be affect.

- ▲ Do not charge when the battery or transceiver is wetted, wipe before charging, or it is dangerous.

Warning

All batteries can cause property damage or body injury such as burns if a conductive material such as jewelry, keys, or beaded chains touch exposed terminals. The conductive material may complete an electrical circuit and become quite hot. Extremely careful in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

Charging Procedures

1. Plug the charger into 220V AC electric socket.
2. Insert the battery or transceiver into the drop-in charging tray.
3. Ensure that the battery's contacts connect with the drop-in charging tray properly. While the charging is taking place, the light will glow red.
4. After 8 hours, the LED indicator light green means the full charge. Now remove the battery or the transceiver from the drop-in charging tray.

LED Indicator	charging status
Red	Charging
Green	Full charged

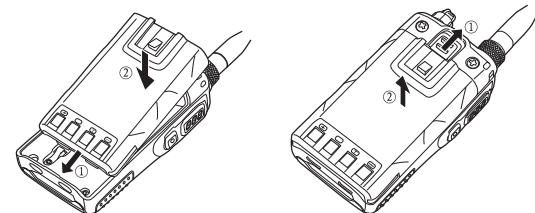
Maintain and cleaning

1. Do not hold the antenna and microphone.
2. Wipe away from dust dirt with avoiding mistaken contact.
3. Do cover microphone jacks when transceiver isn't used.
4. Clean the keys, buttons and surface of transceiver with neutral washing and wetted towel.

Assembling accessories

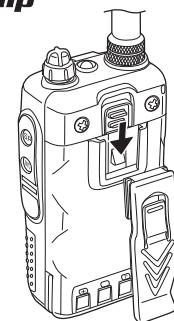
Assemble/disassemble the battery pack

Align the three Ribbed latches on the bottom of the battery with the 3 panes on the bottom of the transceiver. Press the battery back and transceiver firmly together until the release latch clicks, locking it in place. To disassemble the battery pack, push down the release latch while pulling the battery pack away from the transceiver.



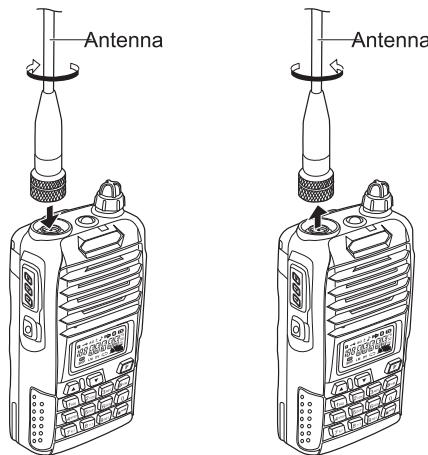
Assemble/Disassemble Belt clip

If necessary, assemble the belt clip into the location on the back of the battery.



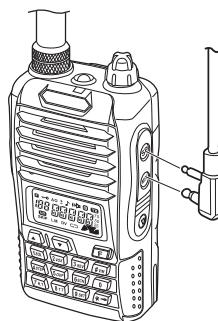
Assemble Antenna

Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.



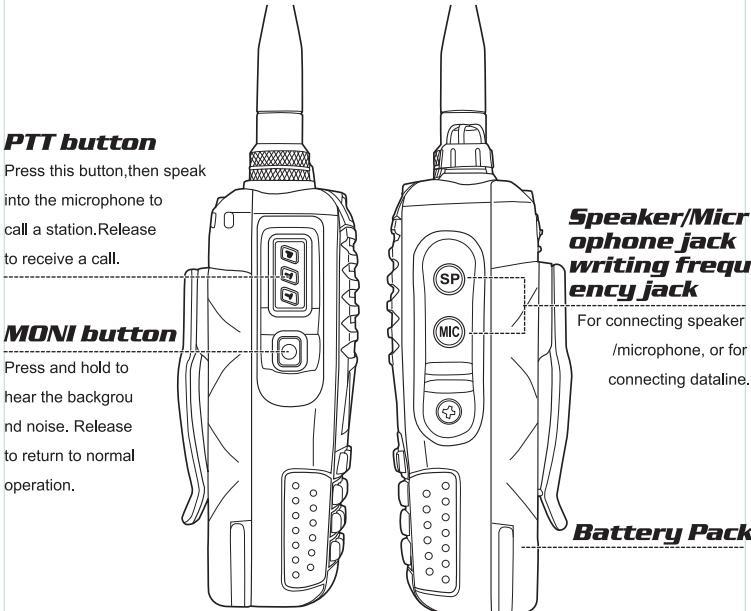
Assemble[optional] speaker/Micro phone

Insert the speaker/microphone plugs into the speaker/microphone jacks of the transceiver.



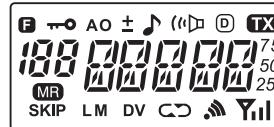
Getting acquainted





LCD Display

This display appears when certain operations are performed or certain specific features are activated. It will help you to know the meaning of the indicator and know how to set functions.



F	Function key/Enter key
Keypad lock	keypad lock
+	Frequency up
-	Frequency down
铃	Bell on
(“)	Receive 60Hz calling signal
喇叭	Analogue sub audio frequency
④	Digital sub audio frequency
TX	Transmit signal
SKIP	Channel scan ADD
DV	Reverse frequency
CD	Group work
VOX	VOX work
接收	Receiving
AO	Radio
L	Low power

Working mode

FR mode

Press [] to turn on to switch over to FR mode. Press [] again to choose full frequency or channel frequency. Pressing [] / [] can also change full frequency or channel signal, or press number key to full frequency or channel signal directly.

CH mode

Press [] to switch over to CH mode. Press [] / [] to change channel, or press number key directly. You need to program one memory channel at least, or this mode is not accessible.

tip: Press [] repeatedly to switch over FR-CH.

Menu mode

Press [] then [] to access menu. Press [] / [] to choose menu option. (refer to menu function setting)

Operation

Turn the power switch/volume

Turn the power switch/volume control clock-wise to make transceiver on. Turn the control anticlockwise, the power is off.

Adjusting the volume

Rotate clockwise to increase and anti clockwise to decrease volume.

Selecting the Frequency

1. Press [] to increase frequency. Press [] to decrease frequency.
2. When the desired frequency can not be entered exactly, confirm the frequency step size. Refer to "Frequency step size setting".
3. Use the number key to press needed frequency. Refer to "Number key enter".

PTT transmitting

1. To transmit, press and hold [PTT], speak into the microphone in a normal tone. The LED indicator lights red when transmitting.
2. Release [PTT] to wait for receiving.

VOX transmitting

1. Set VOXlevel and VOX stop transmit delayed time.(VOXlevel, 1 grade, the highest, needs the biggest power to transmit, 9 grade the lowest.)
2. Press []+[] to start VOX.
3. Insert microphone into jack of transceiver.
4. Transmit when the volume of microphone is enough.

Monitor

Get into monitor mode by pressing [MONI] for 2 seconds.

Alarm function

1. Under stand by situation, transceiver is under alarm situation by pressing [MONI] for 0.5 second and [PTT] key.
2. If transmitting frequency is stored at channel, transceiver will transmit automatically.
3. During alarming, the alarm goes off and transmits for 20 seconds. Then stop transmitting and alarming for 10 seconds. 10 seconds later, the alarm goes off for 20 seconds. After 3 times, transceiver will return to normal working situation.
4. Transceiver will return to normal working situation if signal is accepted during 10 seconds of waiting time.
5. Press [PTT] to quit alarming situation.

Flash light

1. Under stand by situation, press [MONI], flash light is on.
2. Press [MONI] again, flash light is off.

Key lock

Press [] and hold for a while, switch key lock.

Quick operation

Quick operation will be done by pressing [], then pressing []~ [], [].



Squelch level setting (F+1)

1. Press [] then [] to set squelch level. There are 0~9 grades.
2. Press [] / [] to choose grade, and store. Press other keys to quit.



VOX function (F+3)

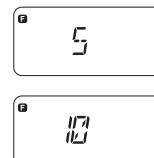
Press [] then [], switch over to VOX function.

Reverse Function on/off

Press [] then [] to switch to Reverse function. Reverse function is not accessible when there is no transmitting frequency in channel.

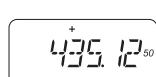
Step frequency setting (F+4)

1. Press [], then [] to set step frequency. There are 5k, 10k, 12.5k, 20k, 25k, 30k, 50k.
2. Press [] / [] to choose frequency, and press [] to affirm and store. Press other keys to quit.



Pilot frequency setting (F+5)

Press [**F**], then [**5_{UP}**], to switch the direction of different frequency. "+" on the display means adding frequency, and "-" means reducing.

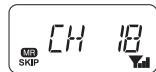




Scan (F+6)

1. Press [**F**] then [**6_{SC}**] to enter scanning.

2. Press [**F**] during scanning, transceiver will store the current scan channel or frequency, then quit press other keys to quit without storing.



3. During scanning, press [**▲**] / [**▼**] to change the direction of scanning.

VFO mode: scanning whole frequency with current step.

Channel mode: under group mode, the channels with data scan of all 119 channels are scanned, non-group mode, the channels with date scan of one group.
(20 at the most of each group).

4. If there are not more than two channels stored and not added, scan is not accessible.

Setting receiving signaling(F+7)

1. Press [**F**] then [**7_{RE}**] to access receiving signaling set.

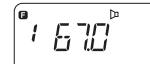
2. Press [***#**] to change signaling type, as the following:

No signal numeric sub audio frequency

OFF → DCSN →

sub audio frequency No signal

CTCSS → OFF




3. Press [**#**] to change numeric audio frequency positive and negative direction, as the following:
DCS N → DCS I

4. Use [**▲**] / [**▼**] to choose your needed group.

5. Press [**F**] to store and quit, press other keys to quit directly.

Attention

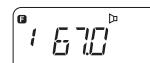
▲ It is unable to set receiving signal when CHXXX appears on display.

Transmitting signal set (F+8)

1. Press [**F**] then [**8_{TT}**] to enter transmitting signal set.



2. Press [***#**] to change signal type, as the following:



No signal numeric sub audio frequency

OFF → DCSN →

sub audio frequency No signal

CTCSS → OFF

3. Press [**#_{FM}**] to change numerical sub audio frequency direction, as the following:
DCS N → DCS I



4. Press [**▲**] / [**▼**] to choose your needed group.

5. Press [**F**] to store and quit, press other keys quit directly.

Attention

▲ It is unable to set transmitting signal when CHXXX appears on display.

Menu option (F+9)

Press [**F**] then [**9_{SET}**] to enter menu option



Refer to the following menu operation.

Choose working group operation (F+0)

1. Press [**F**] then [**0**] to choose working group operation.
2. Press [**▲**] / [**▼**] to choose your needed group. There are A~J at most 10 groups to be chosen, only group storing channel can be chosen.
3. Press other keys to quit.

Attention

▲ Only under channel mode, and group function is on, this operation can be used.

Power Setting (F+#)

1. Press [**F**] to function option then press

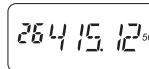
[**#_{FM}**] to change high/low power.



2. "L" is on screen when low power. "L" is not on screen when high power.

Store new channel (F+*)

1. When transceiver is under full frequency mode, channel storage can be operated.



2. When LCD shows needed frequency and channel, press [**#_{FM}**] to 400.13, then key enter 435.125, press [**F**] then [***_{STO}**] to channel storage.



3. Press [**▲**] / [**▼**] to choose channel stored, or press numerical key to choose channel directly.



4. Press [**F**] to store and quit. Press other keys quit directly.



Attention

▲ The operation of VHF (136.000~174.000Hz) is the same as the VHF.

Delete channel

1. The channel mode with showing channel frequency is on.
2. Press [] to deleting channel situation "DEL" is on screen and second channel light glows.
3. Press [] / [] to choose channel deleted, or press the channel number key to choose, and press [] to enter "Yes" is on screen.
4. Finally press []. After deleting channel, transceiver will turn over to next channel, getting ready to delete. When all channels have not signals, transceiver will quit and switch over to full frequency situation.
5. If want to resume deleted frequency, refer to "New channel storage setting".



Radio function

switch on/off radio

Press [] to function option and press [MONI] to radio switch. When radio is on, "AO" is on the screen. Under radio full frequency mode, you can press 4 numbers or 5 numbers (the first number is 1) or press [] / [] to change frequency, stepping data is 50K. Under radio channel model, press [] / [] or press 2 numbers channel (01~25) to change radio current channel.



Radio full frequency mode/channel mode

Press [] to switch over to radio full frequency or channel mode. (When radio channel isn't setted, it is unused).

Radio frequency searching

1. Under radio full frequency mode, press [] to function option, then press [] to radio searching. "RSCN" appears on screen. Press [] / [] to search radio frequency. Press other to quit.
2. When radio frequency is searched, radio is always receiving it. Then quit.
3. During searching, press [PTT] to quit.



Radio monitor mode setting

Press [**F**] to function option, and press [**9**] to function menu, choose DW option, press [**F**] get in, then press [**▲**] / [**▼**] to choose. Press [**F**] to affirm.

Note: When DW is on, transceiver signal is monitored

under radio situation. When receiving signal, radio situation turn over to transceiver situation. After transceiving, radio situation will be back again. When DW is off, transceiver always keep radio function.

**Radio SQ levels setting**

Press [**F**] to function option, and press [**1**] to SQ levels setting. Press [**▲**] / [**▼**] to choose 0~9 levels. Press any key to quit.

**Store radio channel**

Under radio full frequency, press [**F**] to function option, then press [***#**] to radio channel storage. Press [**▲**] / [**▼**] to choose channel needed to store. Press [**F**] again to quit.

Delete radio channel

Before switching off power, choose radio mode and channel mode. Then turn off, press [***#**] to switch on, get into deleting radio channel mode. "XXDEL" is on the screen. Press [**▲**] / [**▼**] to choose channel, then press [**F**] to enter, "XX Yes" is on screen. At last, press [**F**] to affirm delete. After deleting, "XXDEL" is on screen again, deleting next channel.



Special operation

Deleting full frequency/all channels

Press [MONI] and [**F**], screen shows "CLEAR".

Then press [**F**] to enter, screen shows "VFO".

Press [**▲**] / [**▼**] to choose "VFO" or "FULL", finally press [**F**] to operate. After cleaning, transceiver gets into stand by situation automatically.

Choose "VFO", full frequency cleaned and all channels kept.

Choose "FULL" full frequency and all channels are deleted.

After cleaning operation, the original setting and full frequency is the following:

frequency: 400.125MHz frequency offset: 10.000M

pilot frequency: OFF stepping: 5KHz

signal: working mode: VFO frequency

power saving: on beep: on

scan way: time scan Transmitting timer: 60 seconds

VOX: OFF squelch level: 5

backlight lamp: Auto Reverse frequency: OFF

keypad lock: Auto Group operation: OFF

VOX: 4 grade VOX delayed time: 0.5 seconds

CLEAR

VFO

FULL

Cloning

Press [MONI] and [**▼**] to switch on, entering cloning mode. "CLONE" shows on screen. Press side key [MONI] to copy. During copy, "CLOV" appears on source unit, "CLIN" appears on target unit. When copy successfully, the screen of source unit shows "End", then return to initial cloning mode. If copy fails, "Err" shows on screen of source unit, then return to initial cloning mode. It takes about 15 seconds for a successful cloning.

CLONE

CL DU

End

Err

Numberkey Entry

1. Under FR mode, press 1~3 number to change current channel channel. If frequency is stored in the channel, transceiver will turn to the channel. If not, transceiver will keep its original channel.

For example: CH 1: (press 001)

CH 98: (press 098 or 98)

CH 123: (press 123)

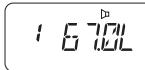
2. Under FR mode, press number to change current frequency. After six numbers enters, if the frequency is effective, transceiver will switch over to the frequency. If it is out of range, it will return to original frequency.

QT/DQT frequency deviation operation

Attention

▲ Only major technician can operate this function, or it will affect normal working. The user must answer for the consequence above.

1. Press [**F**] and [**#FM**] to switch on, enter QT/DQT frequency deviation operation.



2. There are 12 options:

1):low frequency 67Hz	display:1	67.0L
2):low frequency 159.8Hz	display:2	159.8L
3):low frequency 254.1Hz	display:3	254.1L
4):mid frequency 67Hz	display:4	67.0M
5):mid frequency 159.8Hz	display:5	159.8M
6):mid frequency 254.1Hz	display:6	254.1M
7):high frequency 67Hz	display:7	67.0H
8):high frequency 159.8Hz	display:8	159.8H
9):high frequency 254.1Hz	display:9	254.1H
10):low frequency 023N	display:10	023L
11):mid frequency 023N	display:11	023M
12):high frequency 023N	display:12	023H

3. Press [**▲**] / [**▼**] to choose relevant option, and press [**F**] to enter.

4. Press [**▲**] / [**▼**] to change BEC data between 0~255. Press [***#**] to store.

5. Press [**#FM**] to return to menu above.

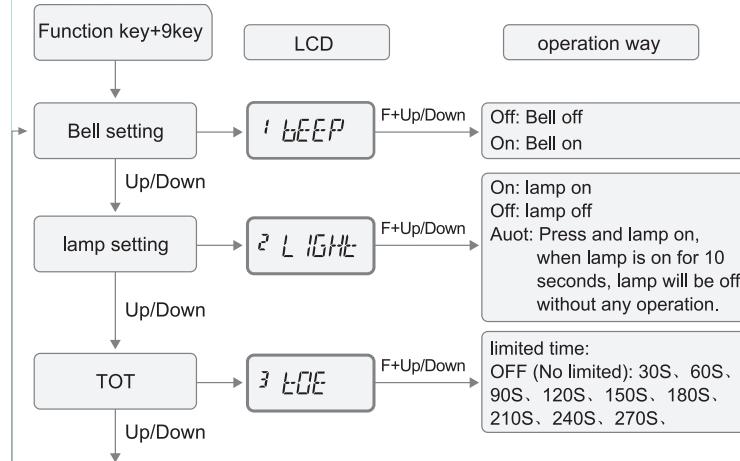
6. Switch off power and switch on again to quit QT/DQT frequency deviation operation.

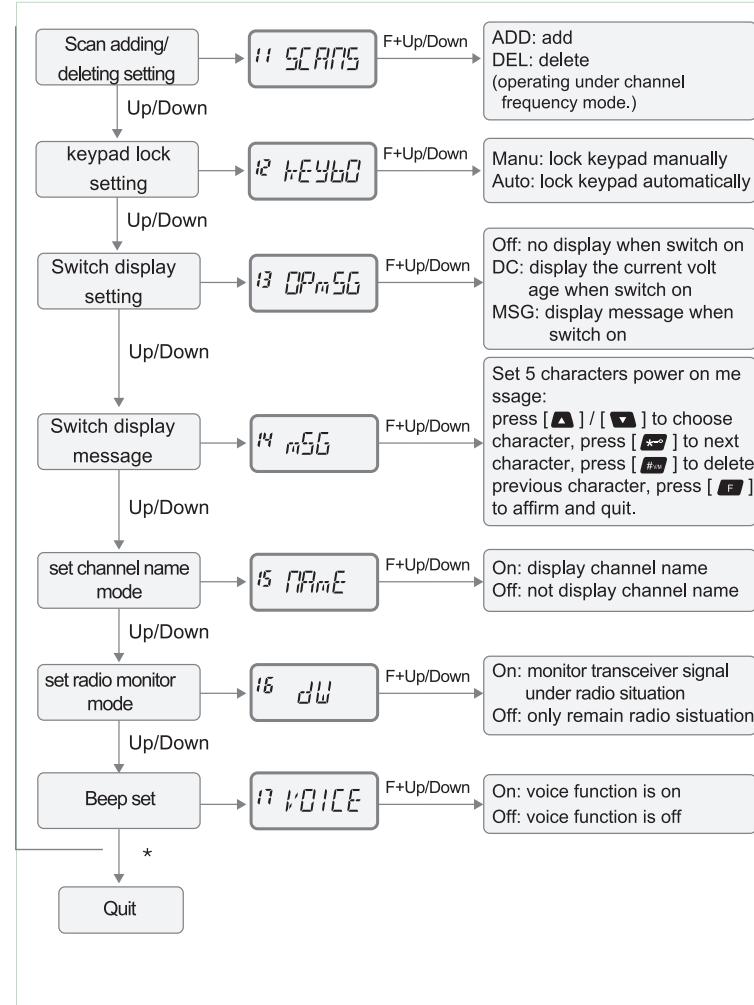
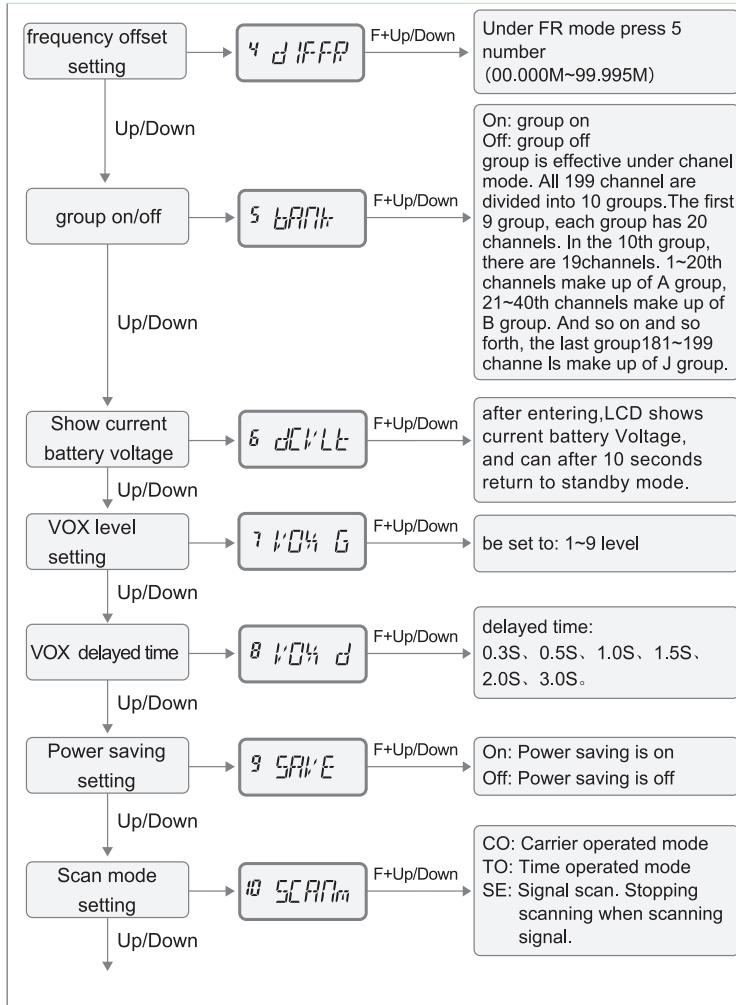
Menu function setting

Menu use

Press [**F**] to show function key on screen. Then press [**F**] to enter menu mode. Press [**▲**] / [**▼**] to choose menu option, then press [**9 SET**] to enter this option. Press [**▲**] / [**▼**] to choose setting data, finally press [**F**] to affirm and return to menu above. Press [***#**] to quit and return to menu above.

Menu operation





Channels programming setting

Under channels programming mode, you can set channel by handing transceiver.

Memory channel set

Press [MONI] and [▲] for long to channel programming mode. "SELF" shows on screen.

SELF

Then press [F], "CH-1" shows on screen.

CH 1

choose setting option	announce	setting
-----------------------	----------	---------

Set channel number
press [▲]/[▼] to choose the channel you need to number.

CH 1

channel range: 1~199

Set receiving frequency
press [F] to set receiving frequency. press [▲] to choose whether set this channel. If you want to delete this channel, press [F] to see display showing "----", and press [F] to affirm. press [▲]/[▼] to change current frequency by step add or reduce.

2 -----

blank: (press ▲)

2 136.05

press [#] to change the current frequency of step (5k,10k,12.5k, 20k, 30k, 50k) press [F] to affirm.

2 136.05

Set receiving signal
when you choose this option it shows "3OFF". press [▲] to choose signal type you need to set. press [▲]/[▼] to choose receiving signal group you need. press [F] to affirm.

3 OFF

OFF

3 G70

CTCSS (CTCSS frequency):
67.0Hz~250.3Hz list: ①

3 DCS

DCS (DCS normal/antiway):
023~754 normal set (list: ②)

3 OFF

when you choose DQT signal, press [#] to change way.

3 DCS

DCS (DCS normal/reverse):
023~754 reverse (list: ②)

Transmit frequency set
the way of set is the same as "setting receiving signal".

4 -----

Transmit signal set
the way and step is the same as setting receiving signal.

5 OFF

Set busy lock

press [▲]/[▼] to choose "OFF" or "wave" (CO lock) or CALL (signal lock), press [F] to affirm.

6 OFF

OFF
WAVE
CALL

Set adding scan/deleting scan

press [▲]/[▼] to choose Add (adding scan) or Del (deleting scan). press [F] to affirm.

7 DEL

Add: add scan
DeL: delete scan

Set high/low power
press [▲] / [▼] to choose high/low, press [F] to affirm.



HIGH: high power
LOW: low power

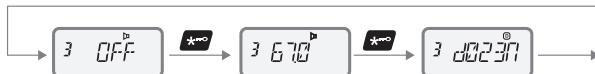
Set channel name
press [▲] / [▼] to choose character (there are 5 characters in every channel), press [→] to the next character, press [#] to delete previous one, press [F] to affirm. this channel programme is ok. come to the next channel.



channel name with 5 characters.

NOTE

1. set receiving/sending signal
choose: OFF/CTCSS/DCS, press [*].



2. DCS normal/reverse: press [#] to set.

Frequency list

50 groups CTCSS frequency List (Hz)

67.0	88.5	114.8	151.4	177.3	203.5	250.3
69.3	91.5	118.8	156.7	179.9	206.5	254.1
71.9	94.8	123.0	159.8	183.5	210.7	
74.4	97.4	127.3	162.2	186.2	218.1	
77.0	100.0	131.8	165.5	189.9	225.7	
79.7	103.5	136.5	167.9	192.8	229.1	
82.5	107.2	141.3	171.3	196.6	233.6	
85.4	110.9	146.2	173.8	199.5	241.8	

105 groups numeric sub audio frequency List(1)

1	023N	28	155N	55	325N	82	516N
2	025N	29	156N	56	331N	83	523N
3	026N	30	162N	57	332N	84	526N
4	031N	31	165N	58	343N	85	532N
5	032N	32	172N	59	346N	86	546N
6	036N	33	174N	60	351N	87	565N
7	043N	34	205N	61	356N	88	606N
8	047N	35	212N	62	364N	89	612N
9	051N	36	223N	63	365N	90	624N
10	053N	37	225N	64	371N	91	627N
11	054N	38	226N	65	411N	92	631N
12	065N	39	243N	66	412N	93	632N
13	071N	40	244N	67	413N	94	645N
14	072N	41	245N	68	423N	95	654N
15	073N	42	246N	69	431N	96	662N
16	074N	43	251N	70	432N	97	664N
17	114N	44	252N	71	445N	98	703N
18	115N	45	255N	72	446N	99	712N
19	116N	46	261N	73	452N	100	723N
20	122N	47	263N	74	454N	101	731N
21	125N	48	265N	75	455N	102	732N
22	131N	49	266N	76	462N	103	734N
23	132N	50	271N	77	464N	104	743N
24	134N	51	274N	78	465N	105	754N
25	143N	52	306N	79	466N		
26	145N	53	311N	80	503N		
27	152N	54	315N	81	506N		

105 groups numeric sub audio frequency List(2)

1	023 I	28	155 I	55	325 I	82	516 I
2	025 I	29	156 I	56	331 I	83	523 I
3	026 I	30	162 I	57	332 I	84	526 I
4	031 I	31	165 I	58	343 I	85	532 I
5	032 I	32	172 I	59	346 I	86	546 I
6	036 I	33	174 I	60	351 I	87	565 I
7	043 I	34	205 I	61	356 I	88	606 I
8	047 I	35	212 I	62	364 I	89	612 I
9	051 I	36	223 I	63	365 I	90	624 I
10	053 I	37	225 I	64	371 I	91	627 I
11	054 I	38	226 I	65	411 I	92	631 I
12	065 I	39	243 I	66	412 I	93	632 I
13	071 I	40	244 I	67	413 I	94	645 I
14	072 I	41	245 I	68	423 I	95	654 I
15	073 I	42	246 I	69	431 I	96	662 I
16	074 I	43	251 I	70	432 I	97	664 I
17	114 I	44	252 I	71	445 I	98	703 I
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19	116 I	46	261 I	73	452 I	100	723 I
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22	131 I	49	266 I	76	462 I	103	734 I
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24	134 I	51	274 I	78	465 I	105	754 I
25	143 I	52	306 I	79	466 I		
26	145 I	53	311 I	80	503 I		
27	152 I	54	315 I	81	506 I		

Repairing Guide

problems	solution
No power	<ul style="list-style-type: none"> • Battery power is off. • Change a new one or charge.
Power time is short even if battery is charged.	<ul style="list-style-type: none"> • The life of battery is over. change a new one.
Out of communication with others.	<ul style="list-style-type: none"> • Make sure your frequency and subaudio signal are the same of as others. • The distance between members is too far. Make sure you are in the range of effective range of other transceiver.
Other voiceI (but not member's) from transceiver.	<ul style="list-style-type: none"> • Change subaudio frequency signal. And must change all transceiver signals of your group.

SPECIFICATION

Frequency range	VHF: 136-174MHz / 245-246MHz UHF: 400-470MHz
operation Temperature range	-20℃~+50℃
rated voltage	DC 7.2V
communication system	single/double frequency simplex
Diemension	115mm X 57mm X 38mm(without antenna)
Weight	about198g
Antenna Impedance	50Ω
CO frequency tolerance	± 2.5ppm
CO output power	5W
modulate Limit	≤ 5KHz
audio frequency distortion	≤ 10%
modulate feature	± 3dB
power of adjacent channel	> 65dB
stray wave	≤ 7.5μW
occupy wideband	≤ 16KHz
sensitivity	<0.2μV
audio frequency distortion	≤ 10%
audio frequency response	-10dB~2dB
10-channle repress	≥ -8dB
intermodulating	≥ 55dB
anti-inter ference	≥ 55dB
anti-stray wave interference	≥ 55dB
barrage feature	≥ 85dB

Warranty Card

Model: _____ Dealer: _____

Serial NO: _____

User Name: _____ Tel No: _____

Zip Code: _____ Fax No: _____

Purchase Date: _____

Address: _____

Warranty Remarks:

1. The consumer keeps the warranty card as the proof ' for repairing.
2. The card is of validity with the stamp and date.
3. The card mustn't be altered. Please confirm that the card No. and the machine No. must be same, or else it is not valid.
4. The accessories, such as charger,battery earp hone, antenna and data line are not covered.
 **ZASTONE** will repair/replace any defective parts during one year limited warranty period.
5. The consumer can send the machine to the purchasesite or our maintenance site for repairing.

— cut along this line —

